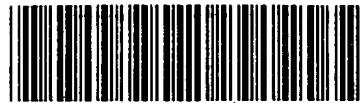


Kw



PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/743,825

DATE: 02/13/2002
TIME: 07:58:02

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\02132002\I743825.raw

ENTERED

4 <110> APPLICANT: Chuaqui, Rodrigo F.
5 Cole, Kristina A.
6 Liotta, Lance A.
9 <120> TITLE OF INVENTION: PB39, A Gene Dysregulated in Prostate
10 Cancer and Uses Thereof
13 <130> FILE REFERENCE: 66043 /US
15 <140> CURRENT APPLICATION NUMBER: 09/743,825
16 <141> CURRENT FILING DATE: 1999-07-23
18 <150> PRIOR APPLICATION NUMBER: US 60/094,137
19 <151> PRIOR FILING DATE: 1998-07-24
21 <150> PRIOR APPLICATION NUMBER: PCT/US99/16831
22 <151> PRIOR FILING DATE: 1999-07-23
24 <160> NUMBER OF SEQ ID NOS: 17
26 <170> SOFTWARE: FastSEQ for Windows Version 3.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 2326
30 <212> TYPE: DNA
31 <213> ORGANISM: Homo sapiens
33 <220> FEATURE:
34 <221> NAME/KEY: CDS
35 <222> LOCATION: (77)...(1753)
37 <400> SEQUENCE: 1
38 ccggggctgg agggggcaaa gcgggttccg aggtgcaaaag cctgggccccc cgagccctgc 60
39 ggagctcgaa gccagg atg gcc ccc acg ctg caa cag gcg tac cgg agg cgc 112
40 Met Ala Pro Thr Leu Gln Gln Ala Tyr Arg Arg Arg
41 1 5 10
43 tgg tgg atg gcc tgc acg gct gtg ctg gag aac ctc ttc ttc tct gct 160
44 Trp Trp Met Ala Cys Thr Ala Val Leu Glu Asn Leu Phe Phe Ser Ala
45 15 20 25
47 gta ctc ctg ggc tgg ggc tcc ctg ttg atc att ctg aag aac gag ggc 208
48 Val Leu Leu Gly Trp Gly Ser Leu Leu Ile Ile Leu Lys Asn Glu Gly
49 30 35 40
51 ttc tat tcc agc acg tgc cca gct gag agc agc acc aac acc acc cag 256
52 Phe Tyr Ser Ser Thr Cys Pro Ala Glu Ser Ser Thr Asn Thr Gln
53 45 50 55 60
55 gat gag cag cgc agg tgg cca ggc tgt gac cag cag gac gag atg ctc 304
56 Asp Glu Gln Arg Arg Trp Pro Gly Cys Asp Gln Gln Asp Glu Met Leu
57 65 70 75
59 aac ctg ggc ttc acc att ggt tcc ttc gtg ctc acg gcc acc acc ctg 352
60 Asn Leu Gly Phe Thr Ile Gly Ser Phe Val Leu Ser Ala Thr Thr Leu
61 80 85 90
63 cca ctg ggg atc ctc atg gac cgc ttt ggc ccc cga ccc gtg cgg ctg 400
64 Pro Leu Gly Ile Leu Met Asp Arg Phe Gly Pro Arg Pro Val Arg Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/743,825

DATE: 02/13/2002
TIME: 07:58:02

Input Set : A:\seqlist.txt
Output Set: N:\Crf3\02132002\I743825.raw

65	95	100	105	
67	gtt ggc agt gcc tgc ttc act gcg tcc tgc acc ctc atg gcc ctg gcc			448
68	Val Gly Ser Ala Cys Phe Thr Ala Ser Cys Thr Leu Met Ala Leu Ala			
69	110	115	120	
71	tcc cgg gac gtg gaa gct ctg tct ccg ttg ata ttc ctg gcg ctg tcc			496
72	Ser Arg Asp Val Glu Ala Leu Ser Pro Leu Ile Phe Leu Ala Leu Ser			
73	125	130	135	140
75	ctg aat ggc ttt ggt ggc atc tgc cta acg ttc act tca ctc acg ctg			544
76	Leu Asn Gly Phe Gly Gly Ile Cys Leu Thr Phe Thr Ser Leu Thr Leu			
77	145	150	155	
79	ccc aac atg ttt ggg aac ctg cgc tcc acg tta atg gcc ctc atg att			592
80	Pro Asn Met Phe Gly Asn Leu Arg Ser Thr Leu Met Ala Leu Met Ile			
81	160	165	170	
83	ggc tct tac gcc tct tct gcc att acg ttc cca gga atc aag ctg atc			640
84	Gly Ser Tyr Ala Ser Ser Ala Ile Thr Phe Pro Gly Ile Lys Leu Ile			
85	175	180	185	
87	tac gat gcc ggt gtg gcc ttc gtg gtc atc atg ttc acc tgg tct ggc			688
88	Tyr Asp Ala Gly Val Ala Phe Val Val Ile Met Phe Thr Trp Ser Gly			
89	190	195	200	
91	ctg gcc tgc ctt atc ttt ctg aac tgc acc ctc aac tgg ccc atc gaa			736
92	Leu Ala Cys Leu Ile Phe Leu Asn Cys Thr Leu Asn Trp Pro Ile Glu			
93	205	210	215	220
95	gcc ttt cct gcc cct gag gaa gtc aat tac acg aag aag atc aag ctg			784
96	Ala Phe Pro Ala Pro Glu Glu Val Asn Tyr Thr Lys Lys Ile Lys Leu			
97	225	230	235	
99	agt ggg ctg gcc ctg gac cac aag ggt gac ctc ttc tac acc			832
100	Ser Gly Leu Ala Leu Asp His Lys Val Thr Gly Asp Leu Phe Tyr Thr			
101	240	245	250	
103	cat gtg acc acc atg ggc cag agg ctc agc cag aag gcc ccc agc ctg			880
104	His Val Thr Thr Met Gly Gln Arg Leu Ser Gln Lys Ala Pro Ser Leu			
105	255	260	265	
107	gag gac ggt tcg gat gcc ttc atg tca ccc cag gat gtt cgg ggc acc			928
108	Glu Asp Gly Ser Asp Ala Phe Met Ser Pro Gln Asp Val Arg Gly Thr			
109	270	275	280	
111	tca gaa aac ctt cct gag agg tct gtc ccc tta cgc aag agc ctc tgc			976
112	Ser Glu Asn Leu Pro Glu Arg Ser Val Pro Leu Arg Lys Ser Leu Cys			
113	285	290	295	300
115	tcc ccc act ttc ctg tgg agc ctc ctc acc atg ggc atg acc cag ctg			1024
116	Ser Pro Thr Phe Leu Trp Ser Leu Leu Thr Met Gly Met Thr Gln Leu			
117	305	310	315	
119	cggtt atc atc ttc tac atg gct gtc aac aag atg ctg gag tac ctt			1072
120	Arg Ile Ile Phe Tyr Met Ala Ala Val Asn Lys Met Leu Glu Tyr Leu			
121	320	325	330	
123	gtg act ggt ggc cag gag cat gag aca aat gaa cag caa caa aag gtg			1120
124	Val Thr Gly Gly Gln Glu His Glu Thr Asn Glu Gln Gln Lys Val			
125	335	340	345	
127	gca gag aca gtt ggg ttc tac tcc tcc gtc ttc ggg gcc atg cag ctg			1168
128	Ala Glu Thr Val Gly Phe Tyr Ser Ser Val Phe Gly Ala Met Gln Leu			
129	350	355	360	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/743,825

DATE: 02/13/2002

TIME: 07:58:02

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02132002\I743825.raw

131	ttg tgc ctt ctc acc tgc ccc ctc att ggc tac atc atg gac tgg cg	1216
132	Leu Cys Leu Leu Thr Cys Pro Leu Ile Gly Tyr Ile Met Asp Trp Arg	
133	365 370 375 380	
135	atc aag gac tgc gtg gac gcc cca act cag ggc act gtc ctc gga gat	1264
136	Ile Lys Asp Cys Val Asp Ala Pro Thr Gln Gly Thr Val Leu Gly Asp	
137	385 390 395	
139	gcc agg gac ggg gtt gct acc aaa tcc atc aga cca cgc tac tgc aag	1312
140	Ala Arg Asp Gly Val Ala Thr Lys Ser Ile Arg Pro Arg Tyr Cys Lys	
141	400 405 410	
143	atc caa aag ctc acc aat gcc atc agt gcc ttc acc ctg acc aac ctg	1360
144	Ile Gln Lys Leu Thr Asn Ala Ile Ser Ala Phe Thr Leu Thr Asn Leu	
145	415 420 425	
147	ctg ctt gtg ggt ttt ggc atc acc tgt ctc atc aac aac tta cac ctc	1408
148	Leu Leu Val Gly Phe Gly Ile Thr Cys Leu Ile Asn Asn Leu His Leu	
149	430 435 440	
151	cag ttt gtg acc ttt gtc ctg cac acc att gtt cga ggt ttc ttc cac	1456
152	Gln Phe Val Thr Phe Val Leu His Thr Ile Val Arg Gly Phe Phe His	
153	445 450 455 460	
155	tca gcc tgt ggg agt ctc tat gct gca gtg ttc cca tcc aac cac ttt	1504
156	Ser Ala Cys Gly Ser Leu Tyr Ala Ala Val Phe Pro Ser Asn His Phe	
157	465 470 475	
159	ggg acg ctg aca ggc ctg cag tcc ctc atc agt gct gtg ttc gcc ttg	1552
160	Gly Thr Leu Thr Gly Leu Gln Ser Leu Ile Ser Ala Val Phe Ala Leu	
161	480 485 490	
163	ctt cag cag cca ctt ttc atg gcg atg gtg gga ccc ctg aaa gga gag	1600
164	Leu Gln Gln Pro Leu Phe Met Ala Met Val Gly Pro Leu Lys Gly Glu	
165	495 500 505	
167	ccc ttc tgg gtg aat ctg ggc ctc ctg cta ttc tca ctc ctg gga ttc	1648
168	Pro Phe Trp Val Asn Leu Gly Leu Leu Phe Ser Leu Leu Gly Phe	
169	510 515 520	
171	ctg ttg cct tac ctc ttc tat tac cgt gcc cgg ctc cag cag gag	1696
172	Leu Leu Pro Ser Tyr Leu Phe Tyr Tyr Arg Ala Arg Leu Gln Gln Glu	
173	525 530 535 540	
175	tac gcc gcc aat ggg atg ggc cca ctg aag gtg ctt agc ggc tct gag	1744
176	Tyr Ala Ala Asn Gly Met Gly Pro Leu Lys Val Leu Ser Gly Ser Glu	
177	545 550 555	
179	gtg acc gca tagacttctc agaccaaggg acctggatga caggcaatca	1793
180	Val Thr Ala	
183	aggcctgagc aacccaaaagg agtgccccat atggctttc tacctgtAAC atgcacatAG	1853
184	agccatggcc gtagatttat aaataccaag agaagttcta tttttgtaaa gactgcAAAA	1913
185	aggagggaaaa aaaacccatca aaaaccccc ctaagtcaac gctccattga ctgaagacAG	1973
186	tccctatcct agaggggtt agctttttc ctccttgggt tggaggagac cagggtgcCT	2033
187	cttatctcct tctagcggtc tgccttcgg tacctttgg gggatcggc aaacaggcta	2093
188	ccctcgaggt cccatgtgcc atgagtgtgc acaacatgca atgtgtctgt gtatgtgtGA	2153
189	atgtgagaaaa aacacagccc tccttcaga agggaaagggg cctgagggtgc cagctgtgtc	2213
190	ctgggtttagg gggtgggggt cggccccc cagggccagg aaggcaggTT ccctctctgg	2273
191	tgctgctgtct tgcaagtctt agagggaaaaaaa aaaaagggaaag tgagaaaaaaa AAA	2326
193	<210> SEQ ID NO: 2	
194	<211> LENGTH: 559	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/743,825

DATE: 02/13/2002
TIME: 07:58:02

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\02132002\I743825.raw

195 <212> TYPE: PRT
196 <213> ORGANISM: Homo sapiens
198 <400> SEQUENCE: 2
199 Met Ala Pro Thr Leu Gln Gln Ala Tyr Arg Arg Arg Trp Trp Met Ala
200 1 5 10 15
201 Cys Thr Ala Val Leu Glu Asn Leu Phe Phe Ser Ala Val Leu Leu Gly
202 20 25 30
203 Trp Gly Ser Leu Leu Ile Ile Leu Lys Asn Glu Gly Phe Tyr Ser Ser
204 35 40 45
205 Thr Cys Pro Ala Glu Ser Ser Thr Asn Thr Thr Gln Asp Glu Gln Arg
206 50 55 60
207 Arg Trp Pro Gly Cys Asp Gln Gln Asp Glu Met Leu Asn Leu Gly Phe
208 65 70 75 80
209 Thr Ile Gly Ser Phe Val Leu Ser Ala Thr Thr Leu Pro Leu Gly Ile
210 85 90 95
211 Leu Met Asp Arg Phe Gly Pro Arg Pro Val Arg Leu Val Gly Ser Ala
212 100 105 110
213 Cys Phe Thr Ala Ser Cys Thr Leu Met Ala Leu Ala Ser Arg Asp Val
214 115 120 125
215 Glu Ala Leu Ser Pro Leu Ile Phe Leu Ala Leu Ser Leu Asn Gly Phe
216 130 135 140
217 Gly Gly Ile Cys Leu Thr Phe Thr Ser Leu Thr Leu Pro Asn Met Phe
218 145 150 155 160
219 Gly Asn Leu Arg Ser Thr Leu Met Ala Leu Met Ile Gly Ser Tyr Ala
220 165 170 175
221 Ser Ser Ala Ile Thr Phe Pro Gly Ile Lys Leu Ile Tyr Asp Ala Gly
222 180 185 190
223 Val Ala Phe Val Val Ile Met Phe Thr Trp Ser Gly Leu Ala Cys Leu
224 195 200 205
225 Ile Phe Leu Asn Cys Thr Leu Asn Trp Pro Ile Glu Ala Phe Pro Ala
226 210 215 220
227 Pro Glu Glu Val Asn Tyr Thr Lys Lys Ile Lys Leu Ser Gly Leu Ala
228 225 230 235 240
229 Leu Asp His Lys Val Thr Gly Asp Leu Phe Tyr Thr His Val Thr Thr
230 245 250 255
231 Met Gly Gln Arg Leu Ser Gln Lys Ala Pro Ser Leu Glu Asp Gly Ser
232 260 265 270
233 Asp Ala Phe Met Ser Pro Gln Asp Val Arg Gly Thr Ser Glu Asn Leu
234 275 280 285
235 Pro Glu Arg Ser Val Pro Leu Arg Lys Ser Leu Cys Ser Pro Thr Phe
236 290 295 300
237 Leu Trp Ser Leu Leu Thr Met Gly Met Thr Gln Leu Arg Ile Ile Phe
238 305 310 315 320
239 Tyr Met Ala Ala Val Asn Lys Met Leu Glu Tyr Leu Val Thr Gly Gly
240 325 330 335
241 Gln Glu His Glu Thr Asn Glu Gln Gln Lys Val Ala Glu Thr Val
242 340 345 350
243 Gly Phe Tyr Ser Ser Val Phe Gly Ala Met Gln Leu Leu Cys Leu Leu
244 355 360 365

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/743,825

DATE: 02/13/2002

TIME: 07:58:02

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02132002\I743825.raw

245 Thr Cys Pro Leu Ile Gly Tyr Ile Met Asp Trp Arg Ile Lys Asp Cys
 246 370 375 380
 247 Val Asp Ala Pro Thr Gln Gly Thr Val Leu Gly Asp Ala Arg Asp Gly
 248 385 390 395 400
 249 Val Ala Thr Lys Ser Ile Arg Pro Arg Tyr Cys Lys Ile Gln Lys Leu
 250 405 410 415
 251 Thr Asn Ala Ile Ser Ala Phe Thr Leu Thr Asn Leu Leu Leu Val Gly
 252 420 425 430
 253 Phe Gly Ile Thr Cys Leu Ile Asn Asn Leu His Leu Gln Phe Val Thr
 254 435 440 445
 255 Phe Val Leu His Thr Ile Val Arg Gly Phe Phe His Ser Ala Cys Gly
 256 450 455 460
 257 Ser Leu Tyr Ala Ala Val Phe Pro Ser Asn His Phe Gly Thr Leu Thr
 258 465 470 475 480
 259 Gly Leu Gln Ser Leu Ile Ser Ala Val Phe Ala Leu Leu Gln Gln Pro
 260 485 490 495
 261 Leu Phe Met Ala Met Val Gly Pro Leu Lys Gly Glu Pro Phe Trp Val
 262 500 505 510
 263 Asn Leu Gly Leu Leu Leu Phe Ser Leu Leu Gly Phe Leu Leu Pro Ser
 264 515 520 525
 265 Tyr Leu Phe Tyr Tyr Arg Ala Arg Leu Gln Gln Glu Tyr Ala Ala Asn
 266 530 535 540
 267 Gly Met Gly Pro Leu Lys Val Leu Ser Gly Ser Glu Val Thr Ala
 268 545 550 555
 270 <210> SEQ ID NO: 3
 271 <211> LENGTH: 3442
 272 <212> TYPE: DNA
 273 <213> ORGANISM: Homo sapiens
 275 <220> FEATURE:
 276 <221> NAME/KEY: CDS
 277 <222> LOCATION: (1760)...(3439)
 279 <400> SEQUENCE: 3
 280 ccggggctgg agggggcataa gcggttccg aggtgaaag cctgggtccc cgagccctgc 60
 281 ggagctcggg gccagcatgg ccccccacgt gcaacaggcg taccggaggc gctgggtggat 120
 282 ggcctgcacg gctgtgctgg agaacctctt cttctctgt gtactcctgg gctggggctc 180
 283 cctgttgcatttcttgcataa acggggctt ctattccagc acgtgccag ctgagagcag 240
 284 caccacaccc acccaggatg agcagcgcag gtggccaggc tggaccaggc aggacgagat 300
 285 gctcaacctg ggcttcacca ttggttcctt cgtgctcagc gccaccaccc tgccactggg 360
 286 gatcctcatg gaccgcatttgc gccccccgacc cgtgcggctg ttggcagtg cctgcttcac 420
 287 tgcgtcctgc accctcatgg ccctggcctc ccgggacgtg gaagctctgt ctccgttgc 480
 288 attcctggcg ctgtccctga atggcttgg tggcatctgc ctaacgttca cttcactcac 540
 289 gctgccaac atgtttggaa acctgcgtc cacattatg gccctcatga ttggcttta 600
 290 cgcctcttgc gccattacgt tcccaggaat caagctgtatc tacgatgccg gtgtggcctt 660
 291 cgtggtcatac atgttcaccc ggtctggcctt ggcctgcctt atctttctga actgcaccc 720
 292 caactggccc atcgaagaccc ttccctgcccc tgaggaagtc aattacacga agaagatcaa 780
 293 gctgagttggg ctggccctgg accacaaggt gacaggtgac ctcttctaca cccatgtgac 840
 294 caccatgggc cagaggctca gccagaaggc ccccagcctg gaggacggtt cggatgcctt 900
 295 catgtcaccc caggatgttc ggggcaccc agaaaacctt cctgagaggt ctgtccctt 960
 296 acgcaagagc ctctgctccc ccactttctt gtggagcctc ctccaccatgg gcatgacccca 1020

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/743,825

DATE: 02/13/2002

TIME: 07:58:03

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\02132002\I743825.raw